Figure 1

```
SEQ ID NO:
6    mouse_E3αII MASEMEPEVQ AID-RSLLEC SAEEIAGRWL QATDLNREVY QHLAHCVPKI   49
4    human_E3αII MASELEPEVQ AID-RSLLEC SAEEIAGKWL QATDLTREVY QHLAHYVPKI   49
15   mouse_E3αI  MADEEMDGAE RMDVSPEPPL APQRPASWWD QQVDFYTAFL HHLAQLVPEI   50
2    human_E3αI  MADEEAGGTE RMEISAELPQ TPQRLASWWD QQVDFYTAFL HHLAQLVPEI   50
     Consensus   MA.E..... ..D....L.. .....A..W. Q..D..... .HLA..VP.I   50

6    mouse_E3αII YCRGPNPFPQ KEDTLAQHIL LGPMEWYICA EDPALGFPKL EQANKPSHLC   99
4    human_E3αII YCRGPNPFPQ KEDMLAQHVL LGPMEWYLCG EDPAFGFPKL EQANKPSHLC   99
15   mouse_E3αI  YFAEMDPDLE KQEESVQMSI LTPLEWYLFG EDPDICLEKL KHSG-AFQLC   99
2    human_E3αI  YFAEMDPDLE KQEESVQMSI FTPLEWYLFG EDPDICLEKL KHSG-AFQLC   99
     Consensus   Y.....P... K.....Q... L.P.EWYL.G EDP.....KL .....A..LC  100

6    mouse_E3αII GRVFKVGEPT YSCRDCAVDP TCVLCMECFL GSIHRDHRYR MTTSGGGGFC  149
4    human_E3αII GRVFKVGEPT YSCRDCAVDP TCVLCMECFL GSIHRDHRYR MTTSGGGGFC  149
15   mouse_E3αI  GKVFKSGETT YSCRDCAIDP TCVLCMDCFQ SSVHKNHRYK MHTSTGGGFC  149
2    human_E3αI  GRVFKSGETT YSCRDCAIDP TCVLCMDCFQ DSVHKNHRYK MHTSTGGGFC  149
     Consensus   GRVFK.GE.T YSCRDCA.DP TCVLCM.CF. .S.H..HRY. M.TS.GGGFC  150

6    mouse_E3αII DCGDTEAWKE GPYCQKHKLS SSEVVEEEDP LVHLSEDVIA RTYNIFAIMF  199
4    human_E3αII DCGDTEAWKE GPYCQKHELN TSEIEEEEDP LVHLSEDVIA RTYNIFAITF  199
15   mouse_E3αI  DCGDTEAWKT GPFCVDHEPG RAGTTKESLH -CPLNEEVIA QARRIFPSVI  198
2    human_E3αI  DCGDTEAWKT GPFCVNHEPG RAGTIKENSR -CPLNEEVIV QARKIFPSVI  198
     Consensus   DCGDTEAWK. GP.C..HE.. ......E... ...L.E.VIA ....IF....  200

6    mouse_E3αII RYAVDILTWS KESELPEDLE VAEKSDTYYC MLFNDEVHTY EQVIYTLQKA  249
4    human_E3αII RYAVEILTWE KESELPADLE MVEKSDTYYC MLFNDEVHTY EQVIYTLQKA  249
15   mouse_E3αI  KYIVEMTIWE EEKELPPELQ IREKNERYYC VLFNDEHHSY DHVIYSLQRA  248
2    human_E3αI  KYVVEMTIWE EEKELPPELQ IREKNERYYC VLFNDEHHSY DHVIYSLQRA  248
     Consensus   .Y.VE...WE .E.ELP..L. ..EK...YYC .LFNDE.H.Y ..VIY.LQ.A  250

6    mouse_E3αII VNCTQKEAIG FATTVDRDGR RPVRYGDFQY CDQAKTVIVR NTSRQTK-PL  298
4    human_E3αII VNCTQKEAIG FATTVDRDGR RSVRYGDFQY CEQAKSVIVR NTSRQTK-PL  298
15   mouse_E3αI  LDCELAEAQL HTTAIDKEGR RAVKAGVYAT CQEAKEDIKS HSENVSQHPL  298
2    human_E3αI  LDCELAEAQL HTTAIDKEGR RAVKAGAYAA CQEAKEDIKS HSENVSQHPL  298
     Consensus   ..C...EA.. ..T..D..GR R.V..G.... C..AK..I.. .........PL  300

6    mouse_E3αII KVQVMHSSVA AHQNFGLKAL SWLGSVIGYS DGLRRILCQV GLQEGPDGEN  348
4    human_E3αII KVQVMHSSIV AHQNFGLKLL SWLGSIIGYS DGLRRILCQV GLQEGPDGEN  348
15   mouse_E3αI  HVEVLHSVVM AHQKFALRLG SWMNKIMSYS SDFRQIFCQA CLVEEPGSEN  348
2    human_E3αI  HVEVLHSEIM AHQKFALRLG SWMNKIMSYS SDFRQIFCQA CLREEPDSEN  348
     Consensus   .V.V.HS... AHQ.F.L.L. SW...I..YS ...R.I.CQ. .L.E.PD.EN  350

6    mouse_E3αII SSLVDRLMLN DSKLWKGARS VYHQLFMSSL LMDLKYKKLF ALRFAKNYRQ  398
4    human_E3αII SSLVDRLMLS DSKLWKGARS VYHQLFMSSL LMDLKYKKLF AVRFAKNYQQ  398
15   mouse_E3αI  PCLISRLMLW DAKLYKGARK ILHELIFSSF FMEMEYKKLF AMEFVKYYKQ  398
2    human_E3αI  PCLISRLMLW DAKLYKGARK ILHELIFSSF FMEMEYKKLF AMEFVKYYKQ  398
     Consensus   ..L..RLML. D.KL.KGAR. ..H.L..SS. .M...YKKLF A..F.K.Y.Q  400

6    mouse_E3αII LQRDFMEDDH ERAVSVTALS VQFFTAPTLA RMLLTEENLM TVIIKAFMDH  448
4    human_E3αII LQRDFMEDDH ERAVSVTALS VQFFTAPTLA RMLITEENLM SIIIKTFMDH  448
15   mouse_E3αI  LQKEYISDDH ERSISITALS VQMLTVPTLA RHLIEEQNVI SVITETLLEV  448
2    human_E3αI  LQKEYISDDH DRSISITALS VQMFTVPTLA RHLIEEQNVI SVITETLLEV  448
     Consensus   LQ.....DDH ER..S.TALS VQ.FT.PTLA R.LI.E.N.. SVI..T...   450
```

Figure 1 (continued)

```
SEQ ID NO:
6    mouse_E3αII  LKHRDAQGRF QFERYTALQA FKFRRVQSLI LDLKYVLISK PTEWSDELRQ  498
4    human_E3αII  LRHRDAQGRF QFERYTALQA FKFRRVQSLI LDLKYVLISK PTEWSDELRQ  498
15   mouse_E3αI   LPEYLDRNN- KFN-FQGYSQ DKLGRVYAVI CDLKYILISK PVIWTERLRA  496
2    human_E3αI   LPEYLDRNN- KFN-FQGYSQ DKLGRVYAVI CDLKYILISK PTIWTERLRM  496
     Consensus    L......... .F........ .K..RV...I .DLKY.LISK PT.W...LR.  500

6    mouse_E3αII  KFLQGFDAFL ELLKCMQGMD PITRQVGQHI EMEPEWEAAF TLQMKLTHVI  548
4    human_E3αII  KFLEGFDAFL ELLKCMQGMD PITRQVGQHI EMEPEWEAAF TLQMKLTHVI  548
15   mouse_E3αI   QFLEGFRSFL KILTCMQGME EIRRQVGQHI EVDPDWEAAI AIQMQLKNIL  546
2    human_E3αI   QFLEGFRSFL KILTCMQGME EIRRQVGQHI EVDPDWEAAI AIQMQLKNIL  546
     Consensus    .FLEGF..FL ..L.CMQGM. .I.RQVGQHI E..P.WEAA. ..QM.L....  550

6    mouse_E3αII  SMVQDWCALD EKVLIEAYKK CLAVLTQCHG GFTDGEQPIT LSICGHSVET  598
4    human_E3αII  SMMQDWCASD EKVLIEAYKK CLAVLMQCHG GYTDGEQPIT LSICGHSVET  598
15   mouse_E3αI   LMFQEWCACD EDLLLVAYKE CHKAVMRCST NFMSSTKTV- VQLCGHSLET  595
2    human_E3αI   LMFQEWCACD EELLLVAYKE CHKAVMRCST SFISSSKTV- VQSCGHSLET  595
     Consensus    :M.Q.WCA.D E..L..AYK. C....M.C.. .F........ ...CGHS.ET  600

6    mouse_E3αII  IRYCVSQEKV SIHLPISRLL AGLHVLLSKS EVAYKFPELL PLSELSPPML  648
4    human_E3αII  IYCVSQEKV SIHLPVSRLL AGLHVLLSKS EVAYKFPELL PLSELSPPML  648
15   mouse_E3αI   KSYKVSEDLV SIHLPLSRTL AGLHVRLSRL GAISRLHEFV PFDSFQVEVL  645
2    human_E3αI   KSYRVSEDLV SIHLPLSRTL AGLHVRLSRL GAVSRLHEFV SFEDFQVEVL  645
     Consensus    ..Y.VS...V SIHLP.SR.L AGLHV.LS.. .......E.. P........L  650

6    mouse_E3αII  IEHPLRCLVL CAQVHAGMWR RNGFSLVNQI YYYHNVKCRR EMFDKDIVML  698
4    human_E3αII  IEHPLRCLVL CAQVHAGMWR RNGFSLVNQI YYYHNVKCRR EMFDKDVVML  698
15   mouse_E3αI   VEYPLRCLVL VAQVVAEMWR RNGLSLISQV FYYQDVKCRE EMYDKDIIML  695
2    human_E3αI   VEYPLRCLVL VAQVVAEMWR RNGLSLISQV FYYQDVKCRE EMYDKDIIML  695
     Consensus    .E.PLRCLVL .AQV.A.MWR RNG.SL..Q. .YY..VKCR. EM.DKDI.ML  700

6    mouse_E3αII  QTGVSMMDPN HFLMIMLSRF ELYQLFSTPD YGKRFSSEVT HKDVVQQNNT  748
4    human_E3αII  QTGVSMMDPN HFLMIMLSRF ELYQIFSTPD YGKRFSSEIT HKDVVQQNNT  748
15   mouse_E3αI   QIGASIMDPN KFLLLVLQRY EL-----TDA FNKTIST--K DQDLIKQYNT  738
2    human_E3αI   QIGASLMDPN KFLLLVLQRY EL-----AEA FNKTIST--K DQDLIKQYNT  738
     Consensus    Q.G.S.MDPN .FL...L.R. EL.....T.. ..K..S.... ..D...Q.NT  750

6    mouse_E3αII  LIEEMLYLII MLVGERFNPG VGQVAATDEI KREIIHQLSI KPMAHSELVK  798
4    human_E3αII  LIEEMLYLII MLVGERFSPG VGQVNATDEI KREIIHQLSI KPMAHSELVK  798
15   mouse_E3αI   LIEEMLQVLI YIVGERYVPG VGNVTREEVI MREITHLLCI EPMPHSAIAR  788
2    human_E3αI   LIEEMLQVLI YIVGERYVPG VGNVTKEEVT MREIIHLLCI EPMPHSAIAK  788
     Consensus    LIEEML...I ..VGER..PG VG.V.....I .REIIH.L.I .PM.HS...K  800

6    mouse_E3αII  SLPEDENKET GMESVIESVA HFKKPGLTGR GMYELKPECA KEFNLYFYHF  848
4    human_E3αII  SLPEDENKET GMESVIEAVA HFKKPGLTGR GMYELKPECA KEFNLYFYHF  848
15   mouse_E3αI   NLPENENNET GLENVINKVA TFKKPGVSGH GVYELKDESL KDFNMYFYHY  838
2    human_E3αI   NLPENENNET GLENVINKVA TFKKPGVSGH GVYELKDESL KDFNMYFYHY  838
     Consensus    .LPE.EN.ET G.E.VI..VA .FKKPG..G. G.YELK.E...K.FN.YFYH.  850

6    mouse_E3αII  SRAEQSKAEE AQRKLKRENK EDTALPPPAL PPFCPLFASL VNILQCDVML  898
4    human_E3αII  SRAEQSKAEE AQRKLKRQNR EDTALPPPVL PPFCPLFASL VNILQSDVML  898
15   mouse_E3αI   SKTQHSKAEH MQKKRRKQEN KDEALPPPPP PEFCPAFSKV VNLLSCDVMI  888
2    human_E3αI   SKTQHSKAEH MQKKRRKQEN KDEALPPPPP PEFCPAFSKV INLLNCDIMM  888
     Consensus    S....SKAE. .Q.K...Q.. .D.ALPPP.. P.FCP.F... VN.L.CDVM.  900
```

Figure 1 (continued)

```
SEQ ID NO:
6    mouse_E3αII  YIMGTILQWA VEHHGSAWSE SMLQRVLHLI GMALQEEKHH LENAVEGHVQ  948
4    human_E3αII  CIMGTILQWA VEHNGYAWSE SMLQRVLHLI GMALQEEKQH LENVTEEHVV  948
15   mouse_E3αI   YILRTIFERA VDTESNLWTE GMLQMAFHIL ALGLLEEKQQ LQKAPEEEV-  937
2    human_E3αI   YILRTVFERA IDTDSNLWTE GMLQMAFHIL ALGLLEEKQQ LQKAPEEEV-  937
     Consensus    YI..TI...A V......W.E .MLQ...H.. ...L.EEKQ. L..A.EE.V.  950

6    mouse_E3αII  TFTFTQKISK PGDAPHNSPS ILAMLETLQN APSLEAHKDM IRWLLKMFNA  998
4    human_E3αII  TFTFTQKISK PGEAPKNSPS ILAMLETLQN APYLEVHKDM IRWILKTFNA  998
15   mouse_E3αI   AFDFYHKASR LGSSAMNAQN IQMLLERLKG IPQLEGQKDM ITWILQMFDT  987
2    human_E3αI   TFDFYHKASR LGSSAMNIQM L---LEKLKG IPQLEGQKDM ITWILQMFDT  984
     Consensus    TF.F..K.S. .G....N... I...LE.L.. .P.LE..KDM I.WIL.MF.. 1000

6    mouse_E3αII  IKKIRE--CS SSSPVAEAEG TIMEESSRDK DKAERKRKAE IARLRREKIM 1046
4    human_E3aI   VKKMRE--SS PTSPVAETEG TIMEESSRDK DKAERKRKAE IARLRREKIM 1046
15   mouse_E3αI   VKRLREKSCL VVATTSGLEC IKSEEITHDK EKAERKRKAE AARLHRQKIM 1037
2    human_E3αI   VKRLREKSCL IVATTSGSES IKNDEITHDK EKAERKRKAE AARLHRQKIM 1034
     Consensus    VK..RE..C. ........E. ...EE...DK .KAERKRKAE .ARL.R.KIM 1050

6    mouse_E3αII  AQMSEMQRHF IDENKELFQQ TLELDTSASA TL--DSSPPV SDAALTALGP 1094
4    human_E3αII  AQMSEMQRHF IDENKELFQQ TLELDASTSA VL--DHSPVA SDMTLTALGP 1094
15   mouse_E3αI   AQMSALQKNF IETHKLMYDN TSEVTGKEDS IMEEESTSAV SEASRIALGP 1087
2    human_E3αI   AQMSALQKNF IETHKLMYDN TSEMPGKEDS IMEEESTPAV SDYSRIALGP 1084
     Consensus    AQMS..Q..F I...K..... T.E..... .....S.P.V SD....ALGP 1100

6    mouse_E3αII  AQTQVPEPRQ FVTCILCQEE QEVTVGSRAM VLAAFVQRST VLSKDRTKTI 1144
4    human_E3αII  TQTQVPEQRQ FVTCILCQEE QEVKVESRAM VLAAFVQRST VLSKNRSKFI 1144
15   mouse_E3αI   KRGPAVTEKE VLTCILCQEE QEVKLENNAM VLSACVQKST ALTQHRGKPV 1137
2    human_E3α    KRGPSVTEKE VLTCILCQEE QEVKIENNAM VLSACVQKST ALTQHRGKPI 1134
     Consensus    .......... ..TCILCQEE QEVK.E..AM VL.A.VQ.ST .L...R.K.I 1150

6    mouse_E3αII  AD-PEKYDPL FMHPDLSCGT HTGSCGHVMH AHCWQRYFDS VQAKEQRRQQ 1193
4    human_E3αII  QD-PEKYDPL FMHPDLSCGT HTSSCGHIMH AHCWQRYFDS VQAKEQRRQQ 1193
15   mouse_E3αI   DHLGETLDPL FMDPDLAHGT YTGSCGHVMH AVCWQKYFEA VQ---LSSQQ 1184
2    human_E3αI   ELSGEALDPL FMDPDLAYGT YTGSCGHVMH AVCWQKYFEA VQ---LSSQQ 1181
     Consensus    ....E..DPL FM.PDL..GT .TGSCGHVMH A.CWQ.YF.. VQ......QQ 1200

6    mouse_E3αII  RLRLHTSYDV ENGEFLCPLC ECLSNTVIPL L-LPPRSILS RRLN-FSDQP 1241
4    human_E3αII  RLRLHTSYDV ENGEFLCPLC ECLSNTVIPL L-LPPRNIFN NRLN-FSDQP 1241
15   mouse_E3αI   RIHVDL-FDL ESGEYLCPLC KSLCNTVIPI IPLQPQKINS ENAEALAQLL 1233
2    human_E3αI   RIHVDL-FDL ESGEYLCPLC KSLCNTVIPI IPLQPQKINS ENADALAQLL 1230
     Consensus    R.......D. E.GE.LCPLC ..L.NTVIP. ..L.P..I.S .......... 1250

6    mouse_E3αII  DLAQWTRAVT QQIKVVQMLR RKHNAA-DTS SSEDTEAMNI IPIPEGFRPD 1290
4    human_E3αII  NLTQWIRTIS QQIKALQFLR KEESTP-NNA STKNSENVDE LQLPEGFRPD 1290
15   mouse_E3αI   TLARWIQTVL ARISGYNIKH AKGEAPAVPV LFNQGMGDST FEFHSILSFG 1283
2    human_E3αI   TLARWIQTVL ARISGYNIRH AKGENP-IPI FFNQGMGDST LEFHSILSFG 1279
     Consensus    .LA.WI.TV. ..I..... .K...P-... .......... .......... 1300

6    mouse_E3αII  FYPRNPYSDS IKEMLTTFGT AAYKVGLKVH PNEGDPRVPI LCWGTCAYTI 1340
4    human_E3αII  FRPKIPYSES IKEMLTTFGT ATYKVGLKVH PNEEDPRVPI MCWGSCAYTI 1340
15   mouse_E3αI   VQSSVKYSNS IKEMVILFAT TIYRIGLKVP PDELDPRVPM MTWSTCAFTI 1333
2    human_E3αI   VESSIKYSNS IKEMVILFAT TIYRIGLKVP PDERDPRVPM LTWSTCAFTI 1329
     Consensus    ......YS.S IKEM...F.T ..Y..GLKV. P.E.DPRVP. ..W.TCA.TI 1350
```

Figure 1 (continued)

```
SEQ ID NO:
6    mouse_E3αII  QSIERILSDE EKPVFGPLPC RLDDCLRSLT RFAAAHWTVA LLPVVQGHFC 1390
4    human_E3αII  QSIERILSDE DKPLFGPLPC RLDDCLRSLT RFAAAHWTVA SVSVVQGHFC 1390
15   mouse_E3αI   QAIENLLGDE GKPLFGALQN RQHSGLKALM QFAVAQRATC PQVLIHKHLA 1383
2    human_E3αI   QAIENLLGDE GKPLFGALQN RQHNGLKALM QFAVAQRITC PQVLIQKHLV 1379
     Consensus    Q.IE..L.DE .KPLFG.L.. R....L..L. .FA.A..... .....Q.H.. 1400

6    mouse_E3αII  KLFASLVPSD SYEDLPCILD IDMFHLLVGL VLAFPALQCQ D---FSGSSL 1437
4    human_E3αII  KLFASLVPND SHEELPCILD IDMFHLLVGL VLAFPALQCQ D---FSGISL 1437
15   mouse_E3αI   RLLSVILPNL QSENTPGLLS VDLFHVLVGA VLAFPSLYWD DTVDLQPSPL 1433
2    human_E3αI   RLLSVVLPNI KSEDTPCLLS IDLFHVLVGA VLAFPSLYWD DPVDLQPSSV 1429
     Consensus    .L.....PN. ..E..PC.L. ID.FH.LVG. VLAFP.L... D......SSL 1450

6    mouse_E3αII  ATG--DLHIF HLVTMAHIVQ ILLTSCTEEN ---GMDQENP TGEEELAILS 1482
4    human_E3αII  GTG--DLHIF HLVTMAHIIQ ILLTSCTEEN ---GMDQENP PCEEESAVLA 1482
15   mouse_E3αI   SSSYNHLYLF HLITMAHMLQ ILLTTDTDLS PGPPLAEGEE DSEEARCASA 1483
2    human_E3αI   SSSYNHLYLF HLITMAHMLQ ILLTVDTGL- ---PLAQVQE DSEEAHSASS 1475
     Consensus    ......L..F HL.TMAH..Q ILLT..T... ------Q... ..EE...... 1500

6    mouse_E3αII  LHKTLHQYTG SALKEAPSGW HLWRSVRAAI MPFLKCSALF FHYLNGVPAP 1532
4    human_E3αII  LYKTLHQYTG SALKEIPSGW HLWRSVRAGI MPFLKCSALF FHYLNGVPSP 1532
15   mouse_E3αI   FFVEVSQHTD GLTGCGAPGW YLWLSLRNGI TPYLRCAALL FHYLLGVAPP 1533
2    human_E3αI   FFAEISQYTS GSIGCDIPGW YLWVSLKNGI TPYLRCAALF FHYLLGVTPP 1525
     Consensus    ......QYT. ........GW .LW.S.R.GI .P.L.C.ALF FHYL.GV..P 1550

6    mouse_E3αII  PDLQV-SGTS HFEHLCNYLS LPTNLIHLFQ ENSDIMNSLI ESWCQNSEVK 1581
4    human_E3αII  PDIQV-PGTS HFEHLCSYLS LPNNLICLFQ ENSEIMNSLI ESWCRNSEVK 1581
15   mouse_E3αI   EELFANSAEG EFSALCSYLS LPTNLFLLFQ EYWDTIRPLL QRWCGDPALL 1583
2    human_E3αI   EELHTNSAEG EYSALCSYLS LPTNLFLLFQ EYWDTVRPLL QRWCADPALL 1575
     Consensus    ..L...S... .F..LCSYLS LPTNL..LFQ E..D....L. ..WC...... 1600

6    mouse_E3αII  RYLNGERGAI SYPRGANKLI DLPEDYSSLI NQASNFSCPK SGGDKSRAPT 1631
4    human_E3αII  RYLEGERDAI RYPRESNKLI NLPEDYSSLI NQASNFSCPK SGGDKSRAPT 1631
15   mouse_E3αI   KSLKQKSAVV RYPRKRNSLI ELPEDYSCLL NQASHFRCPR SADDERKHPV 1633
2    human_E3αI   NCLKQKNTVV RYPRKRNSLI ELPDDYSCLL NQASHFRCPR SADDERKHPV 1625
     Consensus    ..L....... RYPR..N.LI .LPEDYS.L. NQAS.F.CP. S..D....P. 1650

6    mouse_E3αII  LCLVCGSLLC SQSYCCQAEL EGEDVGACTA HTYSCGSGAG IFLRVRECQV 1681
4    human_E3αII  LCLVCGSLLC SQSYCCQTEL EGEDVGACTA HTYSCGSGVG IFLRVRECQV 1681
15   mouse_E3αI   LCLFCGAILC SQNICCQEIV NGEEVGACVF HALHCGAGVC IFLKIRECRV 1683
2    human_E3αI   LCLFCGAILC SQNICCQEIV NGEEVGACIF HALHCGAGVC IFLKIRECRV 1675
     Consensus    LCL.CG..LC SQ..CCQ... .GE.VGAC.. H...CG.GV. IFL..REC.V 1700

6    mouse_E3αII  LFLAGKTKGC FYSPPYLDDY GETDQGLRRG NPLHLCQERF RKIQKLWQQH 1731
4    human_E3αII  LFLAGKTKGC FYSPPYLDDY GETDQGLRRG NPLHLCKERF KKIQKLWHQH 1731
15   mouse_E3αI   VLVEGKARGC AYPAPYLDEY GETDPGLKRG NPLHLSRERY RKLHLVWQQH 1733
2    human_E3αI   VLVEGKARGC AYPAPYLDEY GETDPGLKRG NPLHLSRERY RKLHLVWQQH 1725
     Consensus    ....GK..GC .Y..PYLD.Y GETD.GL.RG NPLHL..ER. RK....WQQH 1750

6    mouse_E3αII  SITEEIGHAQ EANQTLVGID WQHL       1755
4    human_E3αII  SVTEEIGHAQ EANQTLVGID WQHL       1755
15   mouse_E3αI   CIIEEIARSQ ETNQMLFGFN WQLL       1757
2    human_E3αI   CIIEEIARSQ ETNQMLFGFN WQLL       1749
     Consensus    .I.EEI...Q E.NQ.L.G.. WQ.L       1774
```

Figure 2

The Expression Profile of huE3α-II in Human Tissues

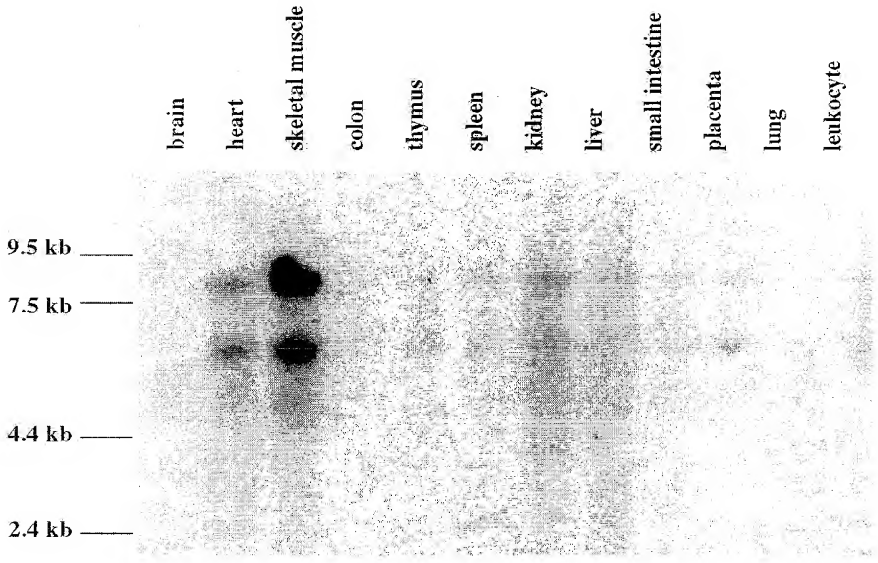


Figure 3

The Expression Profile of huE3α-I in Human Tissues

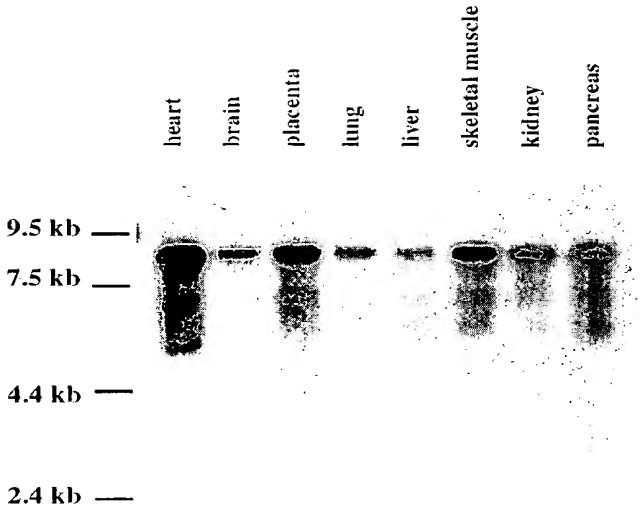


Figure 4- Ubiquitination of Endogenous Proteins

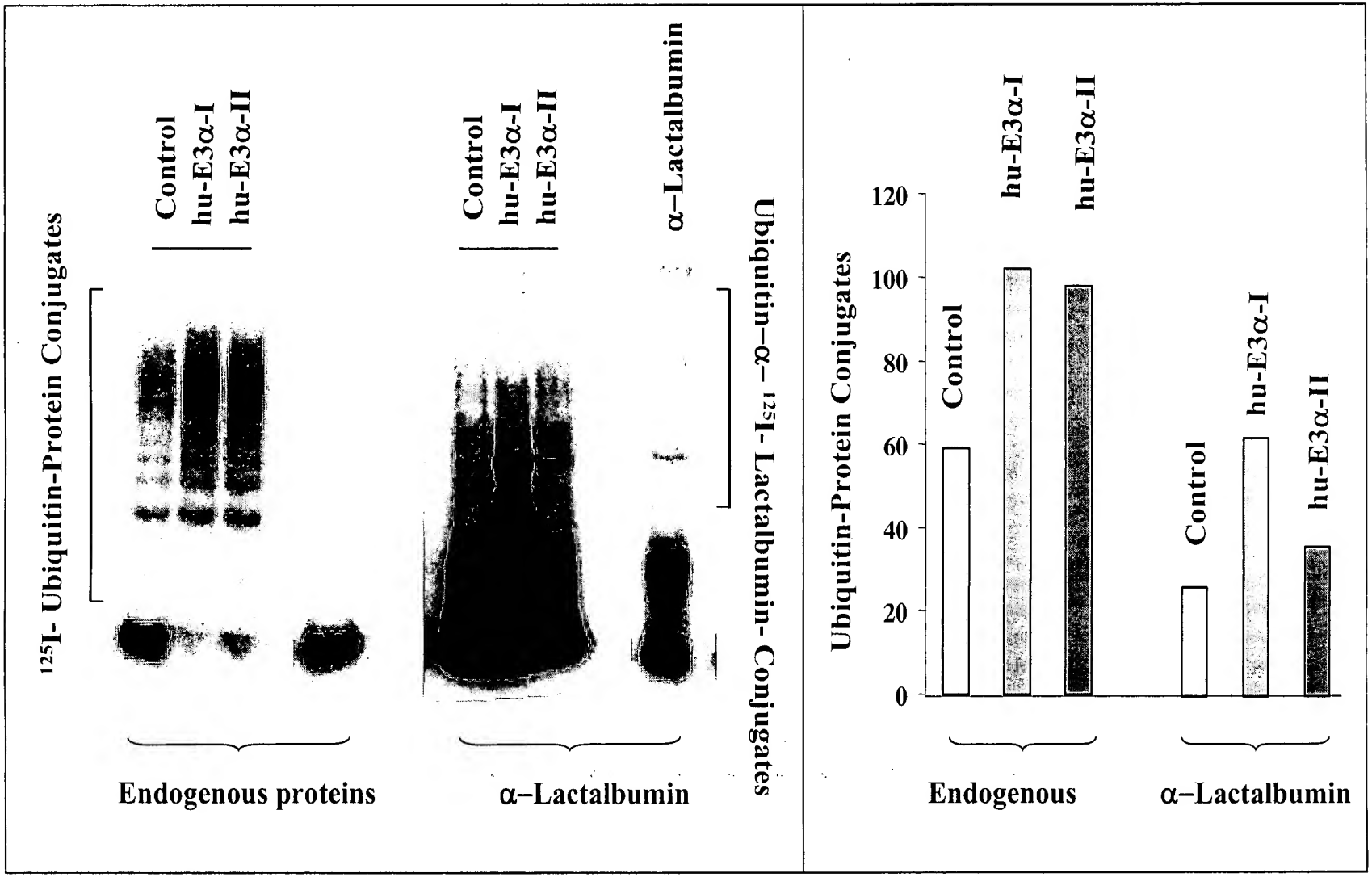
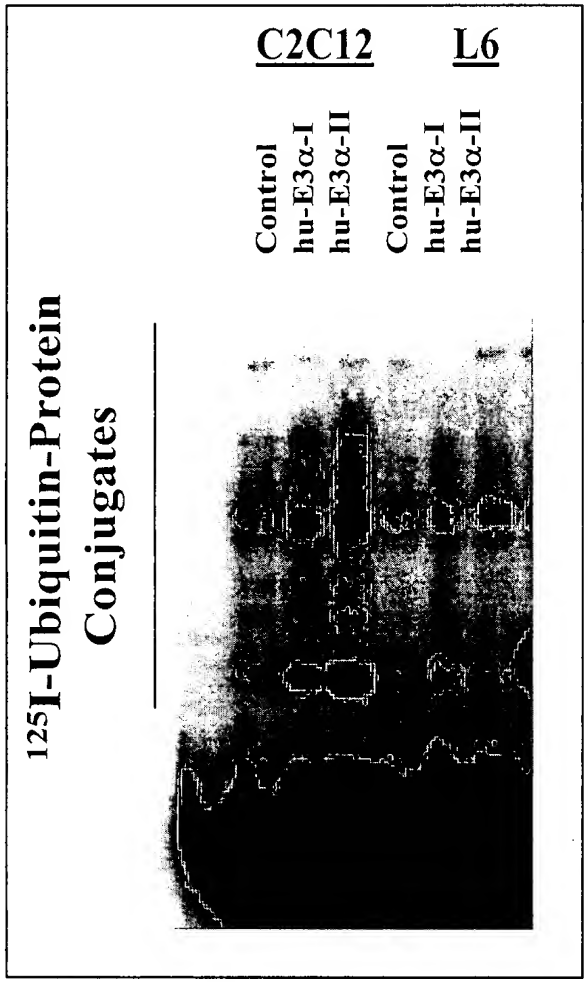


Figure 5

Transfection of Human E3a-I or E3a-II cDNA Stimulates Ubiquitin Conjugation in Cultured Muscle Cell Lines



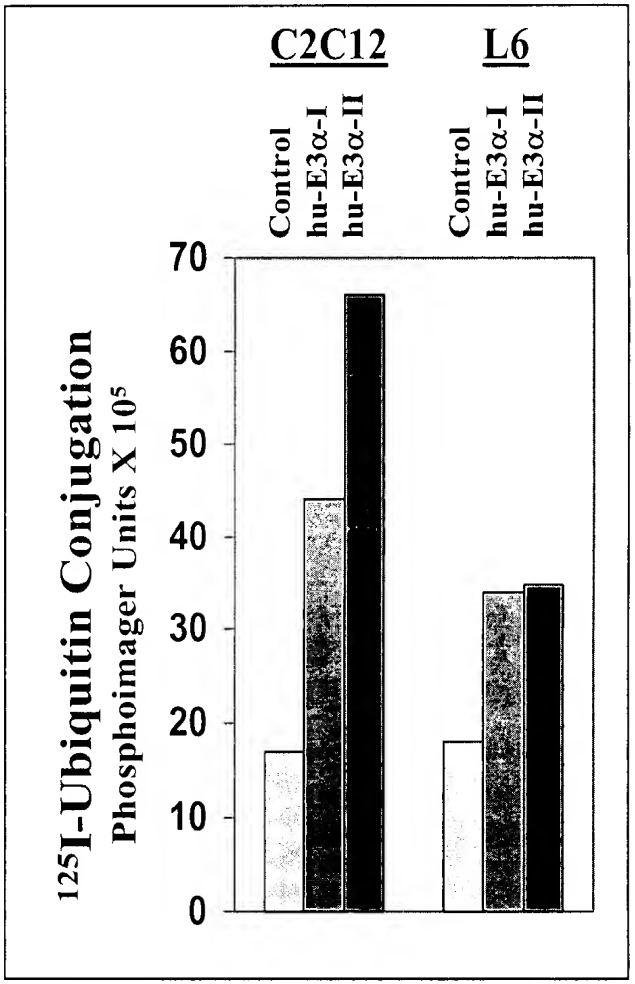


Figure 6 ^{125}I-Ubiquitin Conjugation to Muscle Proteins and Its Sensitivity to E3α Inhibitor in Skeletal Muscle Extracts

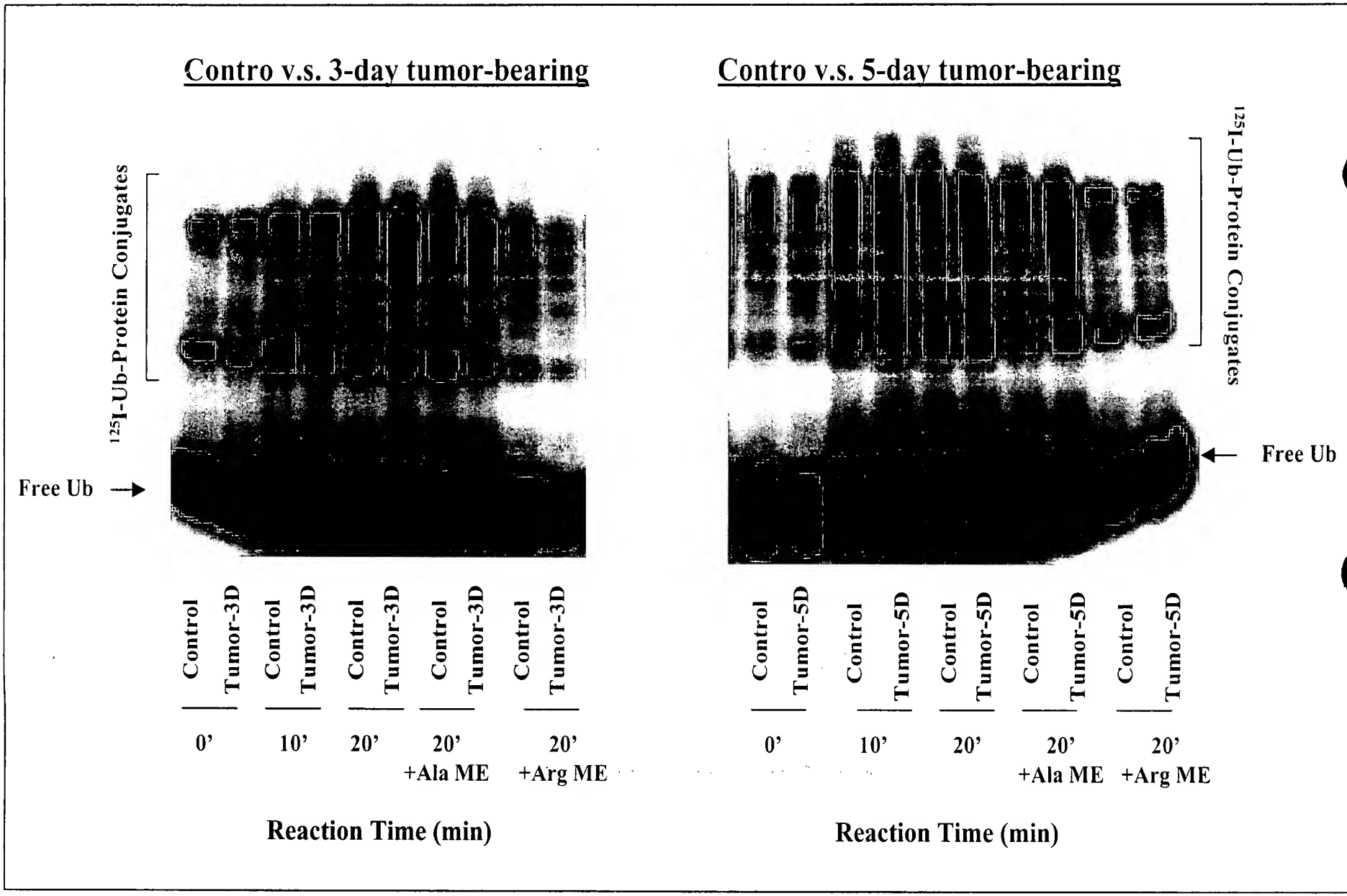


Figure 7

Rates of Ubiquitination of N-end Rule Substrate α-Lactalbumin in Skeletal Muscle Extracts

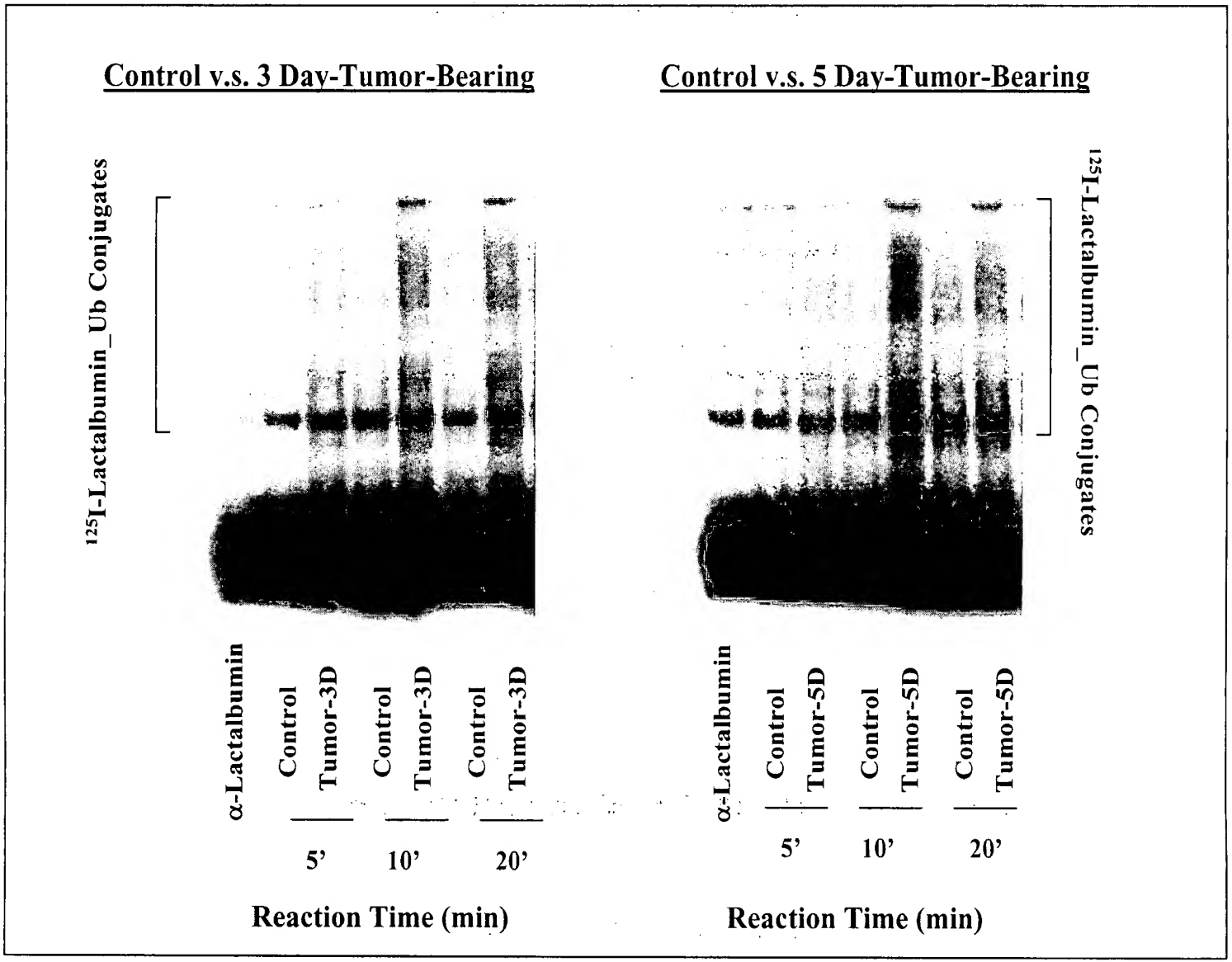


Figure 8

Northern blot analysis of E3α-I & E3α-II expression in gastrocnemius muscles in YAH-130 exprimental cachexia model

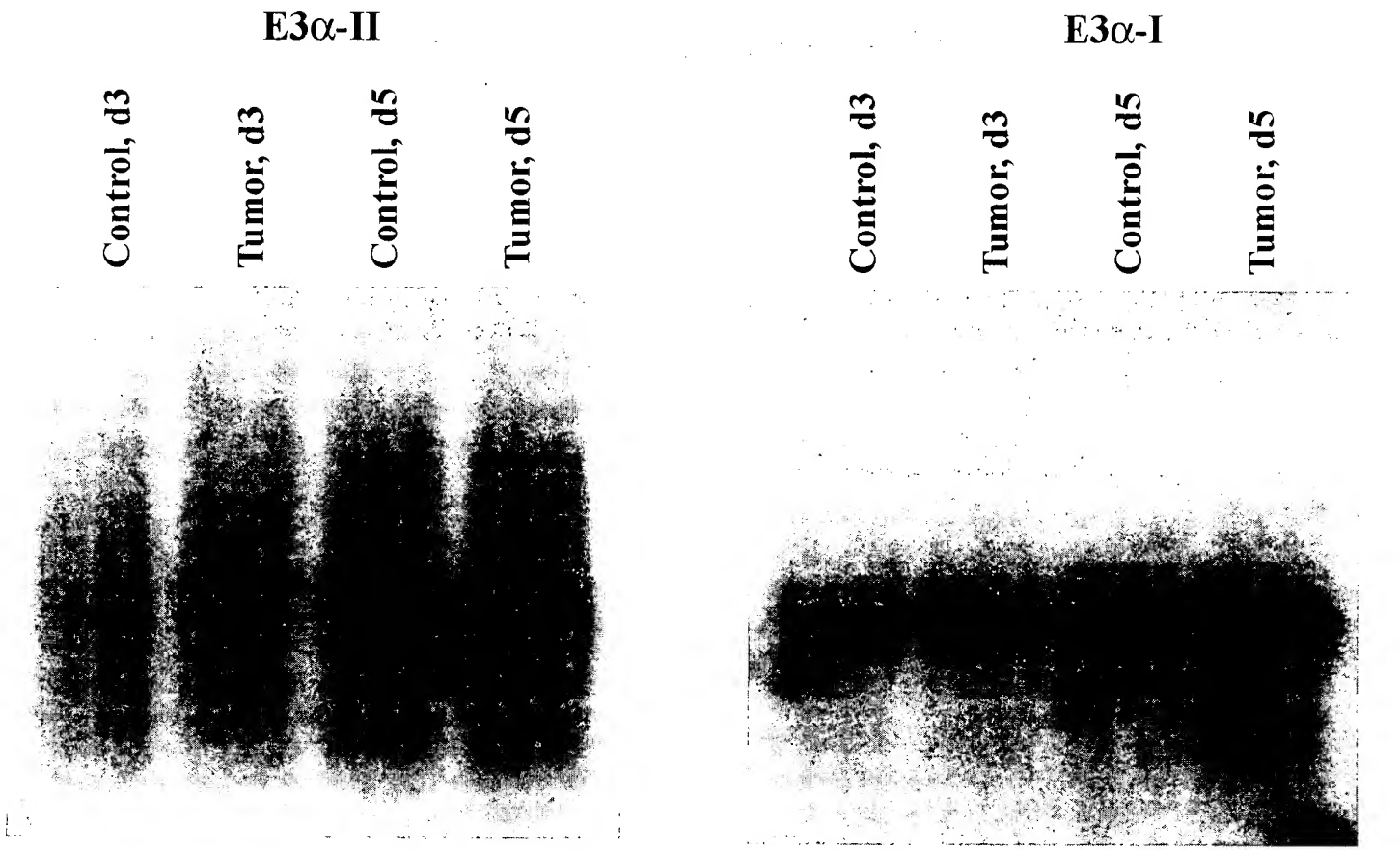


Figure 9

Northern blot analysis of E3α-I and E3α-II expression in gastrocnemius muscle and cardiac muscle in C26 experimental cachexia model

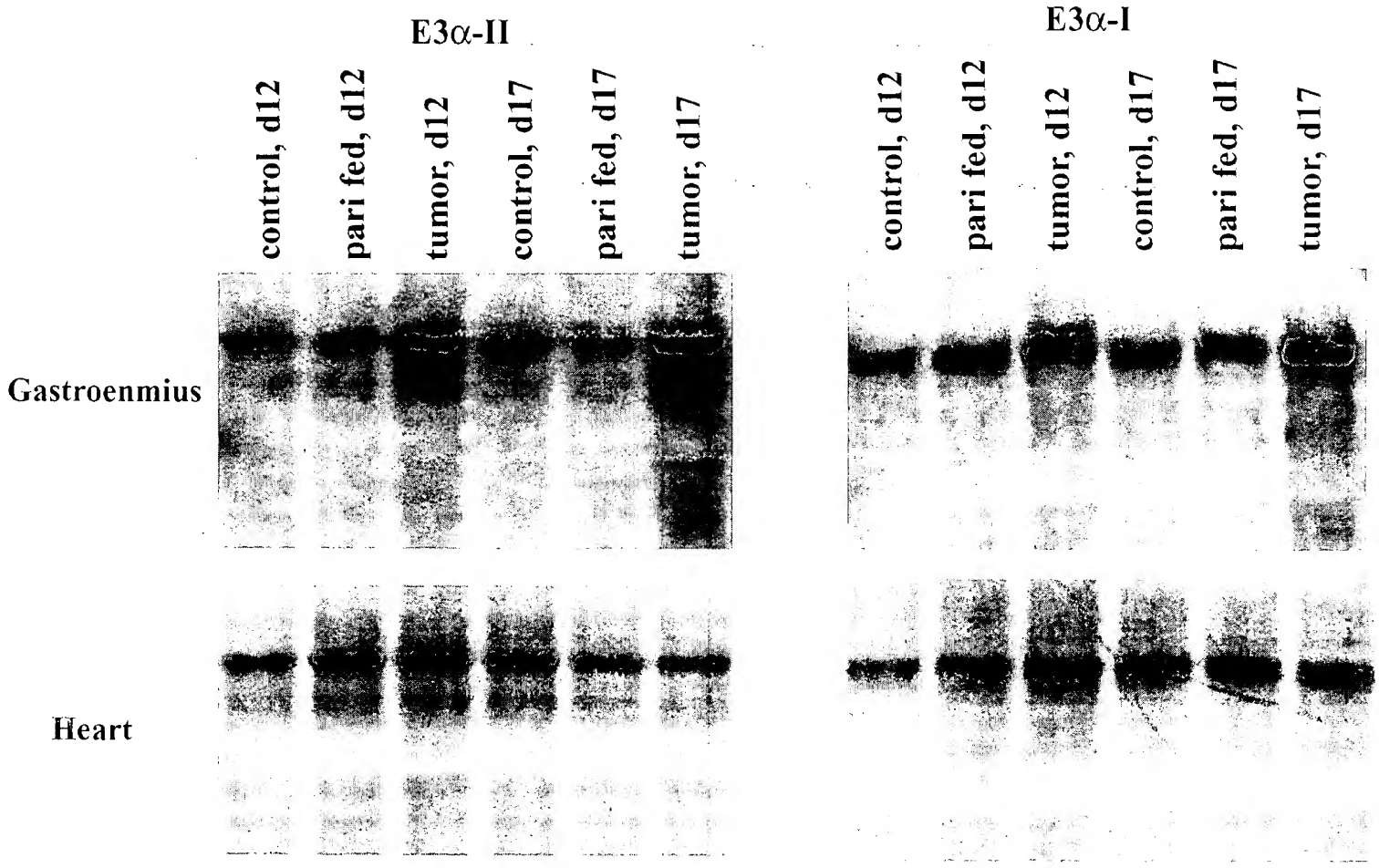


Figure 10

Proinflammatory cytokines TNF-α and IL-6 induce E3α-II Expression in C2C12 myostube culture

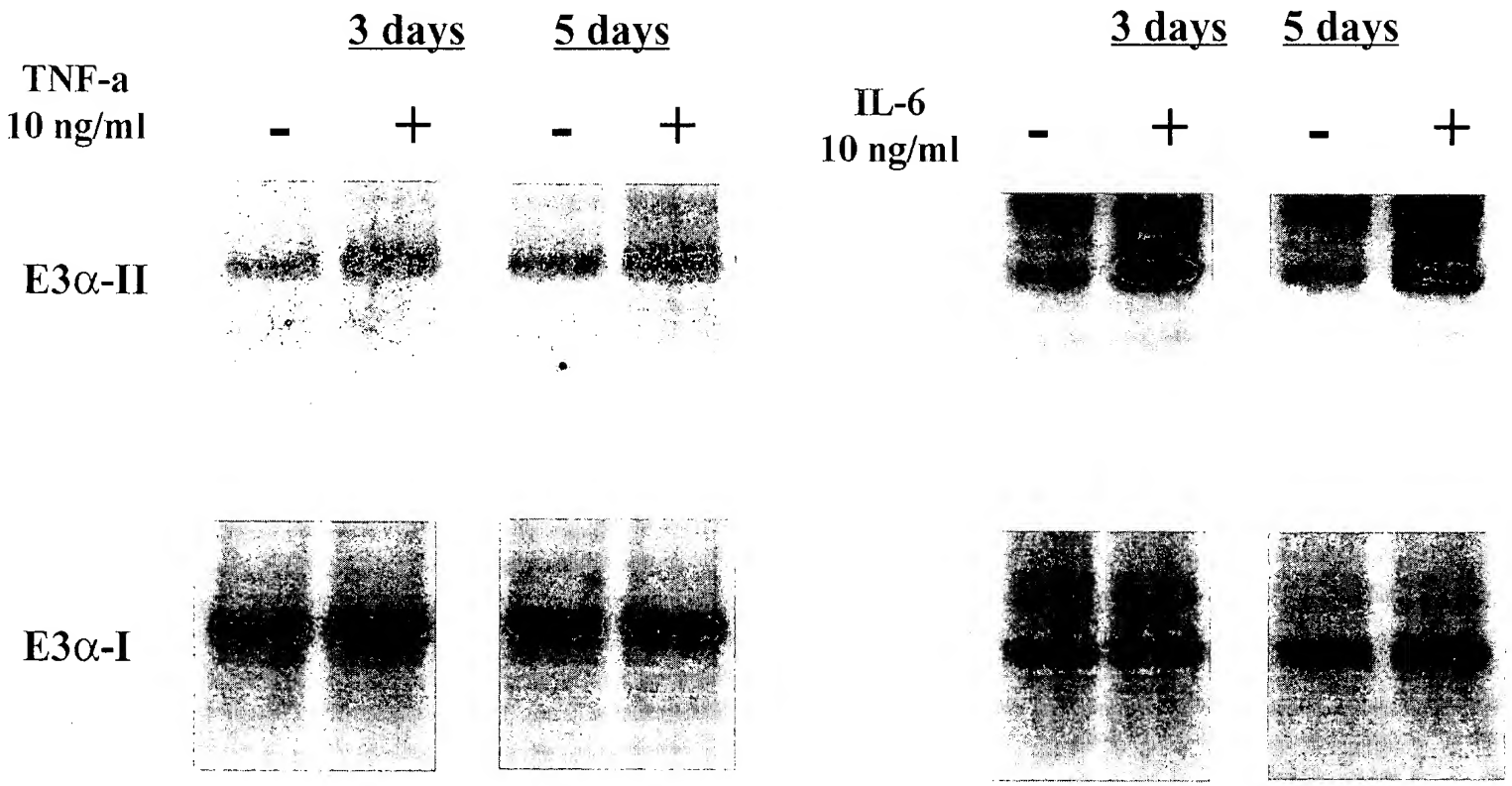


Figure 11

IL-6 Elicits Accelerated Ubiquitination in C2C12 Myotube Cultures

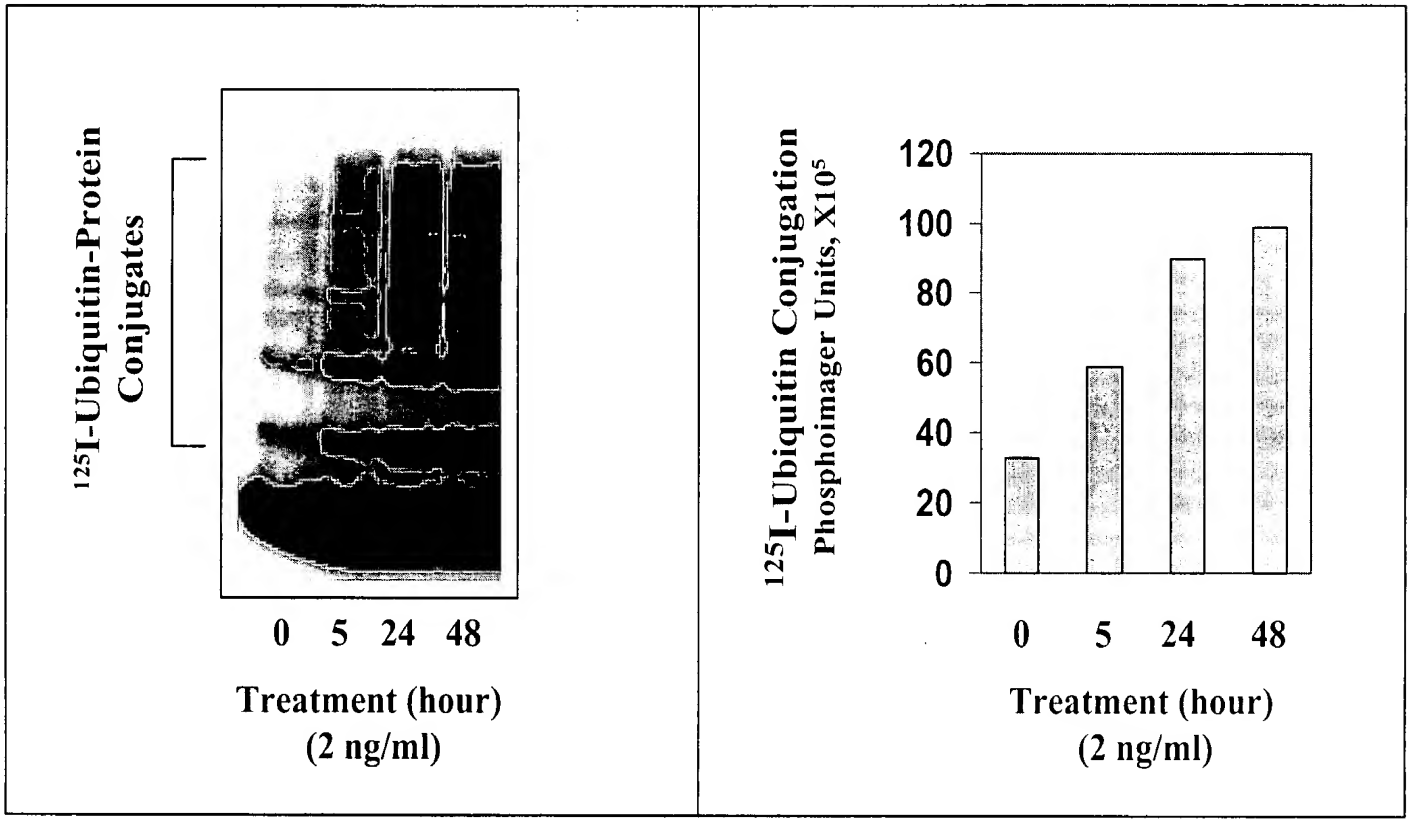


Figure 12

TNFα Elicits Accelerated Ubiquitination in C2C12 Myotube Cultures